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Filed : September 20, 2001

AMENDMENTS TO THE CLAIMS

Claims 1-33 and 36-52 were pending, and Claims 34 and 35 were canceled prior to the entry of the amendments herein. Please cancel Claims 1, 7-10, 13, 14, 17, 19, 24, 27, 28, 31, 32, 36, 37-40, 42, 45, 46, and 48, and please amend Claims 2-6, 11, 12, 15, 16, 21-23, 25, 26, 29, 30, 44, 47, and 49-52. Please add new Claims 53-56.

1. (Canceled)
2. (Currently amended) The apparatus according to claim ~~[[1]]~~ 18, wherein the at ~~least one channel is~~ plurality of channels are disposed radially from ~~[[a]]~~ the center portion of the pad to an edge portion of the pad.
3. (Currently amended) The apparatus according to claim 2, wherein a plurality of holes are disposed between the top surface and the bottom surface of the pad within each ~~the at least one~~ channel.
4. (Currently amended) The apparatus according to claim 3 wherein the plurality of holes are dimensioned to provide a greater flow of the solution at an edge portion of the pad than in the center ~~a central~~ portion of the pad.
5. (Currently amended) The apparatus according to claim 4 wherein those holes that are disposed in the ~~central~~ center portion of the pad are smaller than other holes disposed in the edge portion of the pad.
6. (Currently amended) The apparatus according to claim 2 wherein the channels are ~~channel is~~ V shaped.
7. (Canceled)
8. (Canceled)
9. (Canceled)
10. (Canceled)
11. (Currently amended) The apparatus according to claim ~~[[10]]~~ 3, wherein ~~those~~ holes that are disposed in the ~~central~~ center portion of the pad are smaller than other holes disposed in the edge portion of the pad.
12. (Currently amended) The apparatus according to claim ~~[[10]]~~ 3, wherein the holes have four sides, two opposite sides being parallel to edges of the channel, and the other two

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opposite sides having a shape corresponding to a radius from a corresponding center portion of the pad.

13. (Canceled)

14. (Canceled)

15. (Currently amended) The apparatus according to claim ~~[[14]]~~ 18, wherein the at least one hole in each of the plurality of channels is a slit.

16. (Currently amended) The apparatus according to claim 15 wherein each slit extends past ~~[[an]]~~ the edge region of the workpiece to allow the solution to flow therethrough and out of the channel when the physical contact exists with the workpiece.

17. (Canceled)

18. (Previously presented) A mask plate apparatus for use in an electrochemical processing device in which a solution becomes disposed onto a workpiece and electrochemical processing of the workpiece is performed while relative movement and physical contact exists between the apparatus and a top surface of the workpiece, the apparatus comprising:

a pad having a top surface and a bottom surface, the top surface including a processing area that aligns with the workpiece;

a plurality of channels formed in the top surface of the pad within the processing area:

at least one contact portion formed in the top surface of the pad at a location different than the plurality of channels;

at least one hole disposed between the top surface and the bottom surface of the pad within each of the plurality of channels so that the solution can flow therethrough and into each of the plurality of channels when the physical contact exists with the workpiece, wherein each of the plurality of channels further includes an edge channel portion adapted to allow the solution to flow therethrough and out of the channels when the physical contact exists with the workpiece, wherein the plurality of channels are arranged to allow a relatively greater amount of processing to occur on a center region of the workpiece than an edge region of the workpiece, and wherein each of the plurality of channels is parallel to each other, and each of the plurality of parallel channels has a greater width in a center portion of the pad corresponding to the center region of the workpiece.

19. (Canceled)

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20. (Previously presented) A mask plate apparatus for use in an electrochemical processing device in which a solution becomes disposed onto a workpiece and electrochemical processing of the workpiece is performed while relative movement and physical contact exists between the apparatus and a top surface of the workpiece, the apparatus comprising:

a pad having a top surface and a bottom surface, the top surface including a processing area that aligns with the workpiece;

a plurality of channels formed in the top surface of the pad within the processing area:

at least one contact portion formed in the top surface of the pad at a location different than the plurality of channels; and

at least one hole disposed between the top surface and the bottom surface of the pad within each of the plurality of channels so that the solution can flow therethrough and into each of the plurality of channels when the physical contact exists with the workpiece, wherein each of the plurality of channels further includes an edge channel portion adapted to allow the solution to flow therethrough and out of the channel when the physical contact exists with the workpiece and wherein the plurality of channels are arranged to allow a relatively greater amount of processing to occur on an edge region of the workpiece than a center region of the workpiece, and wherein each of the plurality of channels are parallel to each other, and each of the plurality of parallel channels has a greater width in an edge portion of the pad corresponding to the edge region of the workpiece.

21. (Currently amended) The apparatus according to claim ~~[[1]]~~ 20, wherein the at least one hole is a slit.

22. (Currently amended) The apparatus according to claim 21 wherein substantially an entirety of each of the plurality of channels ~~the entire channel~~ includes the slit.

23. (Currently amended) The apparatus according to claim ~~[[1]]~~ 20, wherein the at least one contact portion includes abrasive materials disposed thereon.

24. (Canceled)

25. (Currently amended) The ~~apparatus~~ device according to claim ~~[[24]]~~ 33, further including at least two electrical contacts adapted to establish electrical contact with the

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workpiece and receive another electric potential, wherein the mask plate is adjacent to each electrical contact.

26. (Currently amended) The ~~apparatus~~ device according to claim 25 wherein the mask plate is substantially rectangular, and the at least two electrical contacts are disposed on opposite sides of the mask plate.

27. (Canceled)

28. (Canceled)

29. (Currently amended) The ~~apparatus~~ device according to claim ~~[[26]]~~ 33, wherein the at least one hole in ~~the at least one channel~~ each of the plurality of channels is a slit.

30. (Currently amended) The ~~apparatus~~ device according to claim 29 wherein ~~[[each]]~~ the slit extends past an edge region of the workpiece to allow the solution to flow therethrough and out of the channel when the physical contact exists with the workpiece.

31. (Canceled)

32. (Canceled)

33. (Previously presented) An electrochemical processing device in which a solution becomes disposed onto a workpiece and electrochemical processing of the workpiece is performed, the apparatus comprising:

a terminal adapted to receive an electrical potential;

at least one electrical contact adapted to establish electrical contact with the workpiece and receive another electric potential, and thereby adapted to establish a potential difference between the terminal and the workpiece so that electrochemical processing can occur in the presence of the solution; and

a mask plate adapted to establish physical contact with the workpiece during a portion of the electrochemical processing and located adjacent to the at least one electrical contact, such that relative movement of the mask plate and the workpiece causes an edge contact region of the workpiece to maintain electrical contact with an edge region of the workpiece while still allowing for the electrochemical processing to occur on a full face of the workpiece, the mask plate including:

a pad having a top surface and a bottom surface, the top surface including a processing area that aligns with the workpiece;

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at least one channel formed in the top surface of the pad within the processing area, the at least one channel configured to allow a substantially equal amount of processing to occur on a center region of the workpiece and the edge region of the workpiece, wherein the at least one channel further includes an edge channel portion adapted to allow the solution to flow therethrough and out of the channel when the physical contact exists with the workpiece;

at least one contact portion formed in the top surface of the pad at a location different than the at least one channel; and

at least one hole disposed between the top surface and the bottom surface of the pad within the at least one channel so that the solution can flow therethrough and into the at least one channel when the physical contact exists with the workpiece, wherein a plurality of the at least one channel are parallel channels and have a greater width in an edge portion of the pad corresponding to the edge contact region of the workpiece that does not always remain in physical contact with the pad.

34.-35. (Canceled)

36. (Canceled)

37. (Canceled)

38. (Canceled)

39. (Canceled)

40. (Canceled)

41. (Previously presented) A mask plate apparatus for use in an electrochemical processing device in which a solution becomes disposed onto a workpiece and electrochemical processing of the workpiece is performed while relative movement and physical contact exists between the apparatus and a top surface of the workpiece, the apparatus comprising:

a pad having a top surface and a bottom surface, the top surface including a processing area that aligns with the workpiece;

a plurality of channels formed in the top surface of the pad within the processing area, the plurality of channels configured to allow a relatively greater amount of processing to occur on one region of the workpiece than another region of the workpiece, wherein the one region is a center region of the workpiece and the another region is an edge region of the workpiece;

at least one contact portion formed in the top surface of the pad at a location different than the plurality of channels;

at least one hole disposed between the top surface and the bottom surface of the pad within each of the plurality of channels so that the solution can flow therethrough and into each of the plurality of channels when the physical contact exists with the workpiece, wherein each of the plurality of channels are parallel to each other; and each of the plurality of parallel channels has a greater width in a center portion of the pad corresponding to the center region of the workpiece.

42. (Canceled)

43. (Previously presented) A mask plate apparatus for use in an electrochemical processing device in which a solution becomes disposed onto a workpiece and electrochemical processing of the workpiece is performed while relative movement and physical contact exists between the apparatus and a top surface of the workpiece, the apparatus comprising:

a pad having a top surface and a bottom surface, the top surface including a processing area that aligns with the workpiece;

a plurality of channels formed in the top surface of the pad within the processing area, the plurality of channels configured to allow a relatively greater amount of processing to occur on one region of the workpiece than another region of the workpiece, wherein the one region is an edge region of the workpiece and the another region is a center region of the workpiece;

at least one contact portion formed in the top surface of the pad at a location different than the plurality of channels;

at least one hole disposed between the top surface and the bottom surface of the pad within each of the plurality of channels so that the solution can flow therethrough and into each of the plurality of channels when the physical contact exists with the workpiece, wherein each of the plurality of channels is parallel to each other, and each of the plurality of parallel channels has a greater width in an edge portion of the pad corresponding to the edge region of the workpiece.

44. (Currently amended) The apparatus according to Claim ~~[[39]]~~ 41, wherein each of the plurality of channels has a gradually changing width between ~~[[a]]~~ the center portion of the pad and an edge portion of the pad.

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45. (Canceled)
46. (Canceled)
47. (Currently amended) The apparatus according to Claim ~~[[38]]~~ 41, wherein each of the plurality of channels is V-shaped.
48. (Canceled)
49. (Currently amended) The apparatus according to Claim ~~[[38]]~~ 41, wherein the at least one hole in each of the plurality of channels is a slit.
50. (Currently amended) The apparatus according to Claim 49 wherein each slit extends past ~~[[an]]~~ the edge region of the workpiece to allow the solution to flow therethrough and out of the channel when the physical contact exists with the workpiece.
51. (Currently amended) The apparatus according to Claim ~~[[1]]~~ 41, wherein the width of the at least one of the channels ~~channel~~ is reduced as the ~~at least one~~ channel extends away from the center portion of the pad towards the edge channel portion.
52. (Currently amended) The apparatus according to Claim ~~[[1]]~~ 43, wherein the width of ~~the at least one~~ each channel is increased as the ~~at least one~~ channel extends towards the edge ~~channel~~ portion of the pad.
53. (New) The apparatus according to Claim 43, wherein each of the plurality of channels has a gradually changing width between a center portion of the pad and the edge portion of the pad.
54. (New) The apparatus according to claim 43, wherein each of the plurality of channels are parallel to each other.
55. (New) The apparatus according to Claim 43, wherein the at least one hole in each of the plurality of channels is a slit.
56. (New) The apparatus according to Claim 55, wherein each slit extends past the edge region of the workpiece to allow the solution to flow therethrough and out of the channel when the physical contact exists with the workpiece.